

Tilburg University

Maximum likelihood estimation of the GLS model with unknown parameters in the disturbance covariance matrix

Magnus, J.R.

Published in:
Journal of Econometrics

Publication date:
1978

[Link to publication in Tilburg University Research Portal](#)

Citation for published version (APA):

Magnus, J. R. (1978). Maximum likelihood estimation of the GLS model with unknown parameters in the disturbance covariance matrix. *Journal of Econometrics*, 7(3), 281-312.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

CORRIGENDA

Jan Magnus, Maximum likelihood estimation of the GLS model with unknown parameters in the disturbance covariance matrix, Journal of Econometrics 7 (1978) 281-312.

The following corrections should be made:

	page	line	is	should be
1.	292	4th ↑	$\text{tr}\left(\frac{\partial\Omega^{-1}}{\partial\theta_i}\right)\Omega$	$\text{tr}\left(\frac{\partial\Omega^{-1}}{\partial\theta_i}\Omega\right)$
2.	292	3rd ↑	$\text{tr}\left(\frac{\partial\Omega^{-1}}{\partial\theta_j}\right)\Omega$	$\text{tr}\left(\frac{\partial\Omega^{-1}}{\partial\theta_j}\Omega\right)$
3.	293	6th ↓	$2\text{tr}\left(\frac{\partial\Omega^{-1}}{\partial\theta_i}\Omega\frac{\partial\Omega^{-1}}{\partial\theta_j}\Omega\right)$	$2\text{tr}\left(\frac{\partial\Omega^{-1}}{\partial\theta_i}\Omega\frac{\partial\Omega^{-1}}{\partial\theta_j}\Omega\right)$
4.	296	eq. (23)	$\sigma_{p1}Q_p\Gamma Q_1'$	$\sigma_{p1}Q_p\Gamma Q_1'$
5.	301	eq. (30)	$(\Psi_{\zeta\sigma})_i = 2\sigma^{-2} \text{tr} K_i$	$(\Psi_{\zeta\sigma})_i = -2\sigma^{-2} \text{tr} K_i$
6.	301	eq. (30)	$(\Psi_{\zeta\sigma})_j = \sigma^{-2} \text{tr} C_j$	$(\Psi_{\zeta\sigma})_j = -\sigma^{-2} \text{tr} C_j$
7.	303	top: A^{-1}	$\phi^{-1}\rho^{n-2}$	$\phi^{-1}\rho^{n-1}$
8.	304	4th ↓	$\sum_{i=0}^{n-3} \rho^{2i}$	$\sum_{i=0}^{n-2} \rho^{2i}$
9.	304	4th ↓	$\sum_{k=0}^{n-2} \sum_{i=0}^k \rho^{2i}$	$\sum_{k=0}^{n-3} \sum_{i=0}^k \rho^{2i}$
10.	304	2nd ↑	$\psi_{\rho\sigma} = 2\sigma^{-2} \text{tr} K = 2\sigma^{-2} \phi' \phi^{-1}$	$\psi_{\rho\sigma} = -2\sigma^{-2} \text{tr} K = -2\sigma^{-2} \phi' \phi^{-1}$
11.	305	5th ↑	$a = \sigma_i^{-2} \sum_2^{n-1} e_i^2$	$a = \sigma^{-2} \sum_2^{n-1} e_i^2$
12.	306	eq. (37) Ψ_{23} and Ψ_{32}	$\frac{-\rho}{\sigma^2(1-\rho^2)}$	$\frac{\rho}{\sigma^2(1-\rho^2)}$

I am grateful to Chander Kant of Southern Methodist University for pointing out item 12. The items 10 and 12 result from items 5 and 6, where two minus-signs were lost in the passage from (26) to (30). The other corrections are merely typographical.